Norfolk District, U.S. Army Corps of Engineers

Dutch Dialogues: Virginia – Life at Sea Level

Coastal Resilient Communities

June 19, 2015

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Colonel, U.S. Army
Commanding

US Army Corps of Engineers
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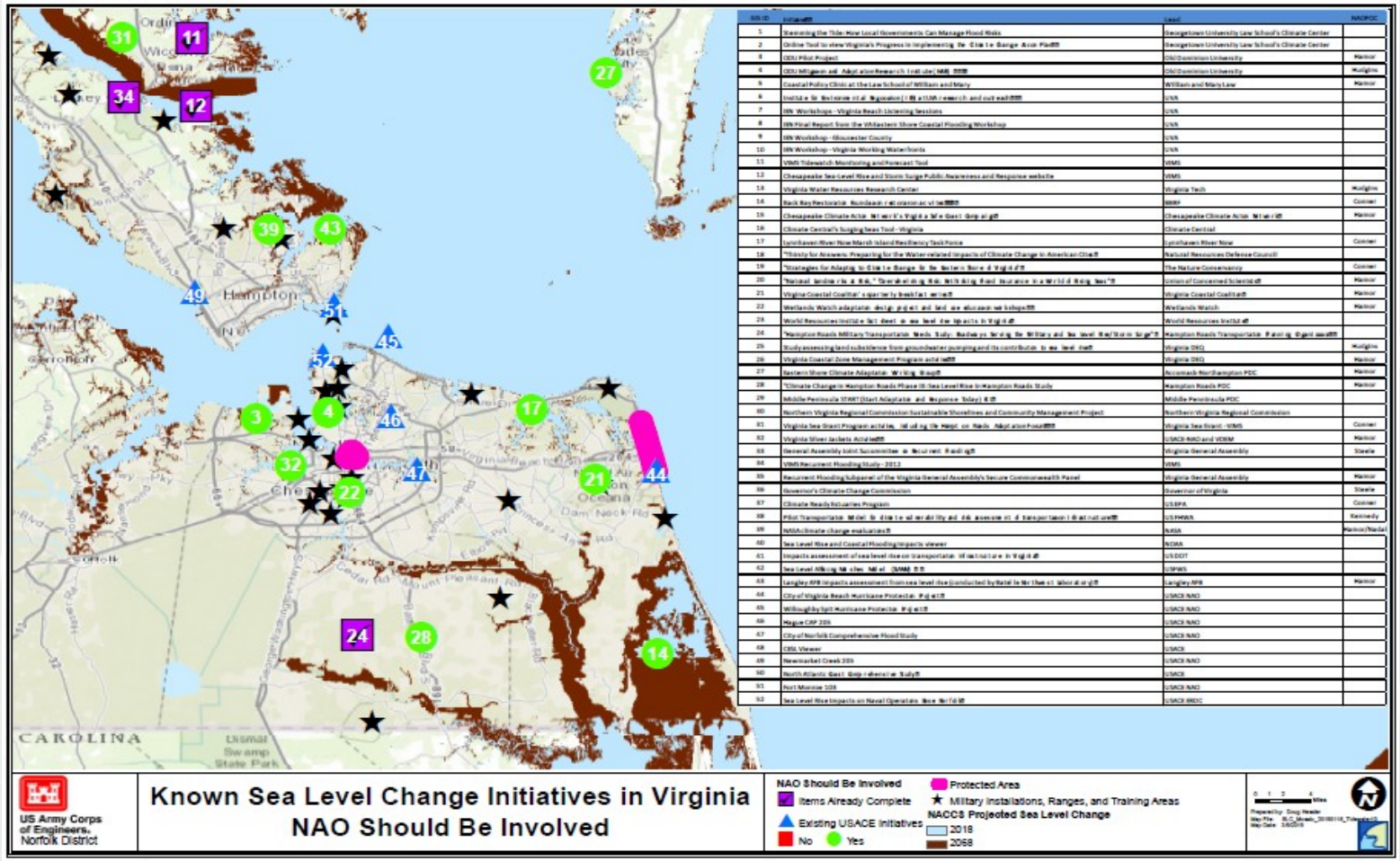
For Context --Three Levels of Effort

I. Tactical - Deliver the Program ($680 Million)
- Construction Program (Military, Civil Works, Other Gov't Agencies
- Regulatory Program

II. Operational - Port Modernization
- 55' + Southern Branch Deepening
- Craney Island Eastern Expansion (CIEE)
- Post Panamex Dredging

III. Strategic - Sea Level Rise and Climate Change (SLR/CC)
- North Atlantic Coast Comprehensive Study (NACCS)
- Whole of Government approach to SLR/CC
- Projects/Studies (Norfolk Comprehensive)

Strategic: Sea Level Rise (SLR)



A detailed view illustrates where the efforts are bringing solutions and where studies need to be done using the NACCS as a framework

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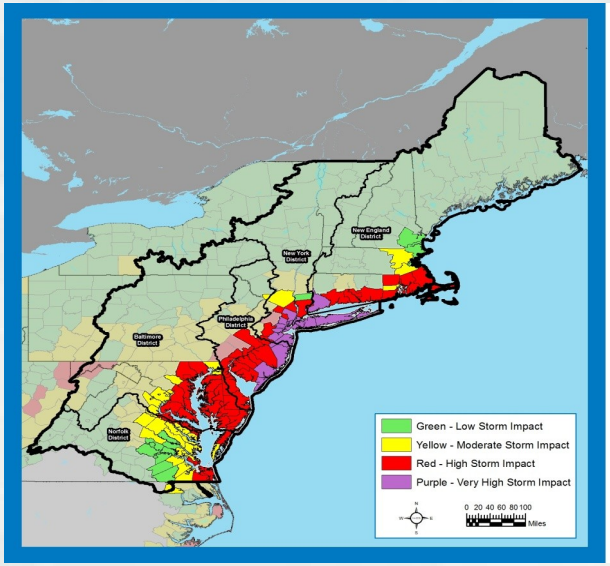
North Atlantic Coastal Comprehensive Study (NACCS)

"That using up to $20,000,000* of the funds provided herein, the Secretary shall conduct a comprehensive study to address the flood risks of vulnerable coastal populations in areas that were affected by Hurricane Sandy within the boundaries of the North Atlantic Division of the Corps …." (*19M after sequestration)

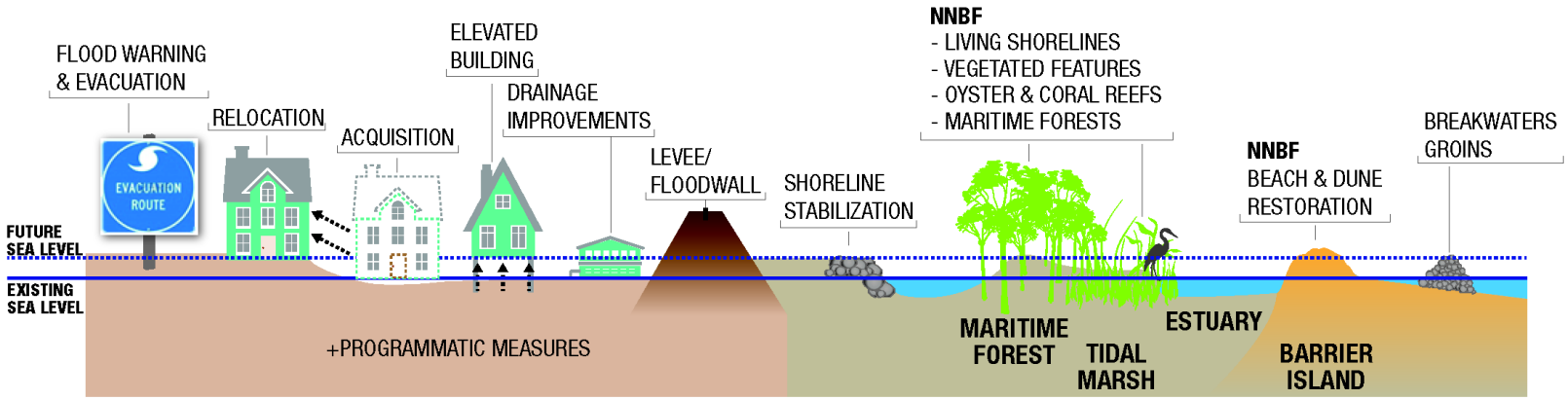


www.nad.usace.army.mil/CompStudy

Goals

- Provides a **Risk Management Framework – not a plan**
- Supports **Resilient Coastal Communities** and robust, sustainable coastal landscape systems
- **Considers future sea level rise scenarios**, to reduce risk to vulnerable population, property, ecosystems, and infrastructure
- Whole of Government Approach

NACCS Describes a Full Spectrum of Projects



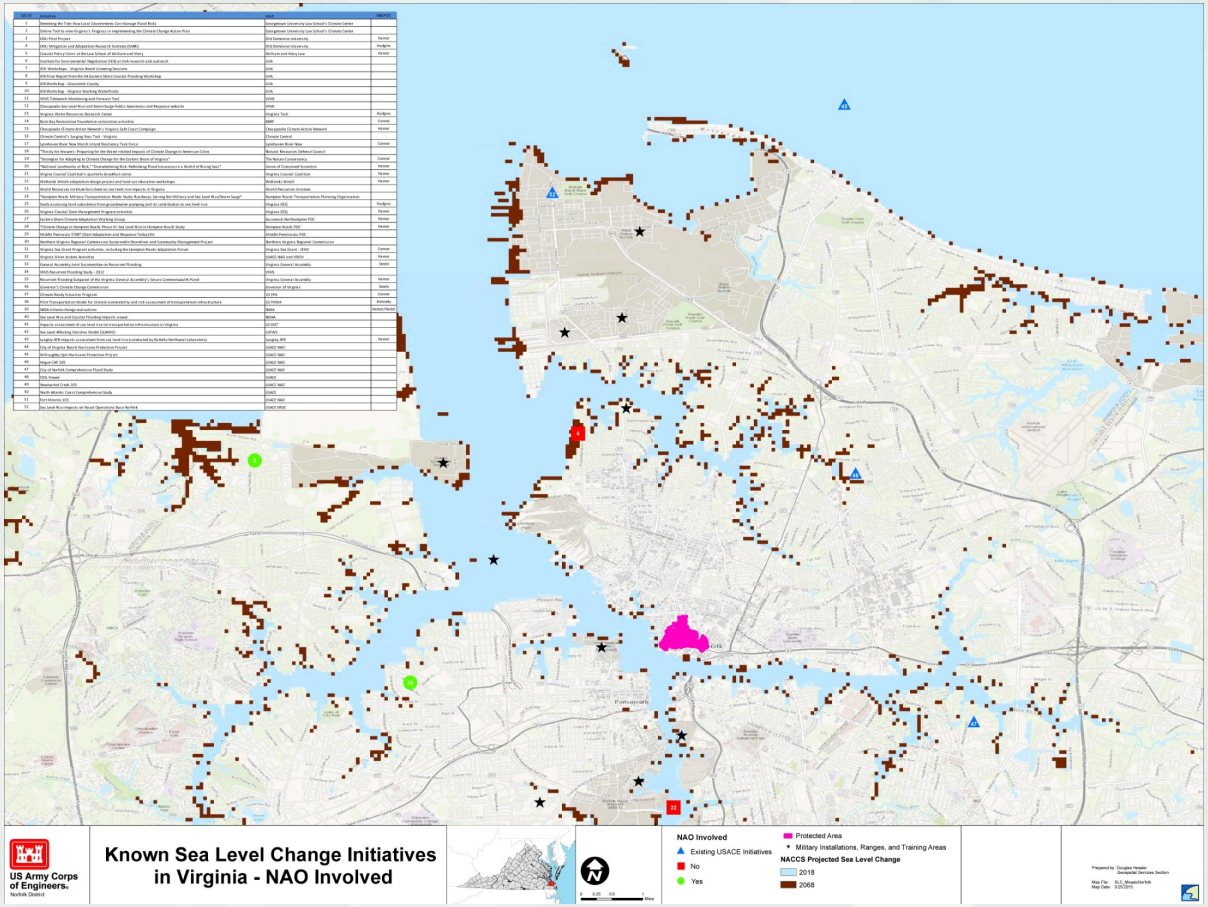
The NACCS Identified Norfolk

NACCS Identified nine focus areas

Three studies were funded for FY16 – one being Norfolk

Norfolk is ready to cost share the study

The Norfolk Study will Authorize “Projects”



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Authorized Projects Await Congressional Appropriations and Non Federal Cost Share

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Funded Projects are Constructed

Sandbridge Project
Virginia Beach

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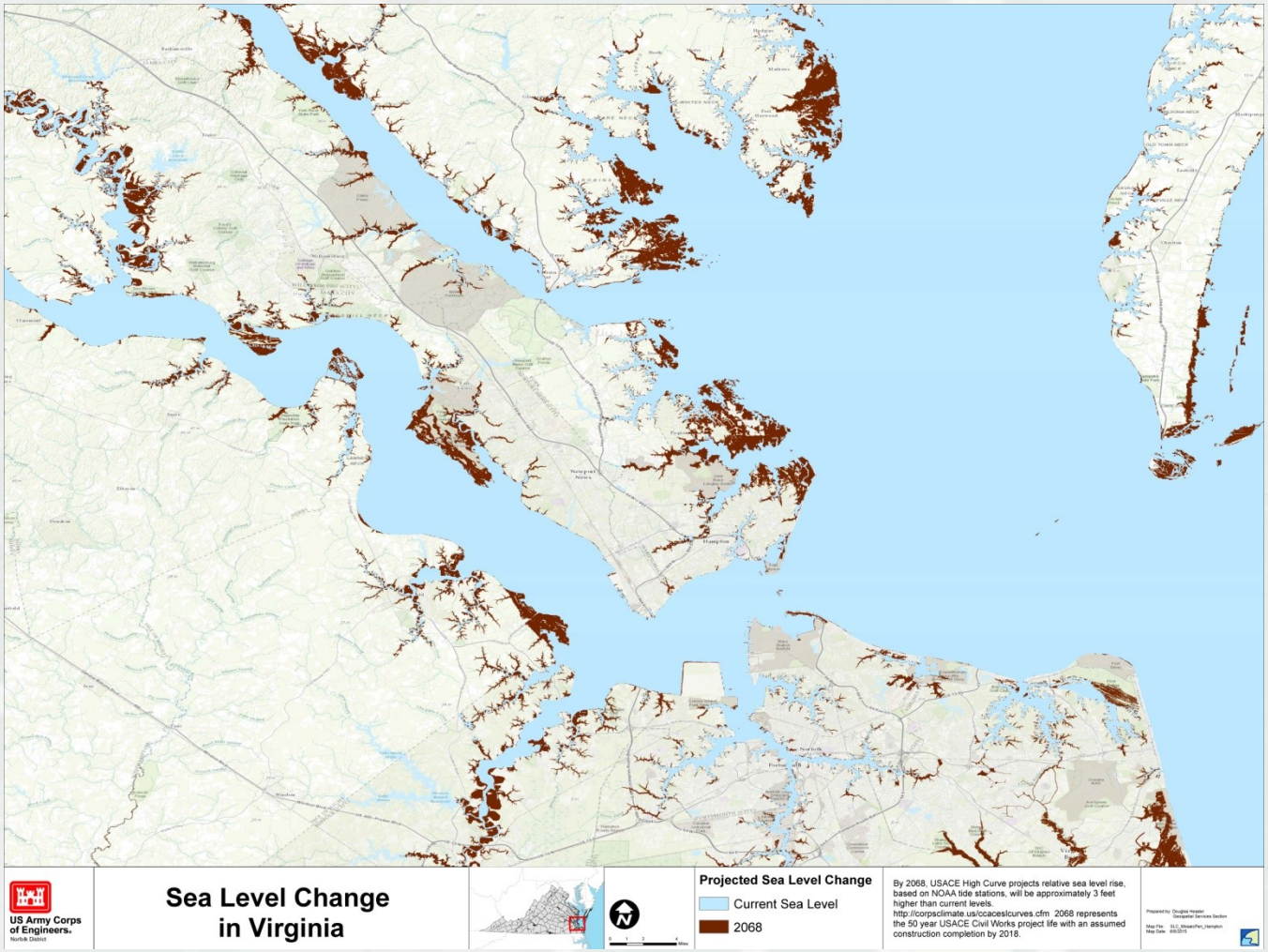
“The sea level rise fight starts right here, right now.”
April 10, 2015

Willoughby Spit

Our Future?

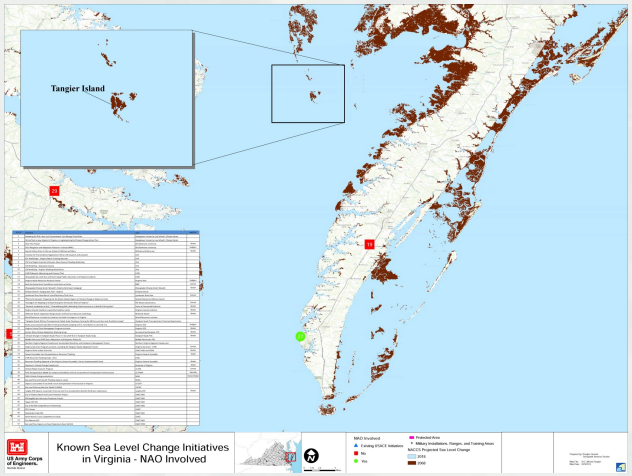
A Requirement for Leadership

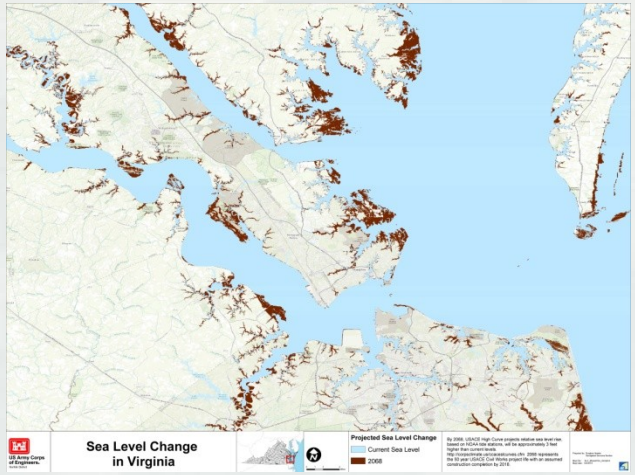
Our Future?

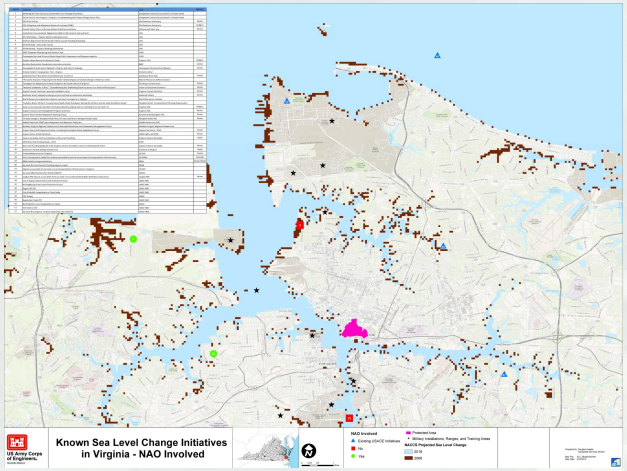

US Army Corps of Engineers
Norfolk District
Sea Level Change in Virginia
Projected Sea Level Change
Current Sea Level
2068
By 2068, USACE High Curve projects relative sea level rise, based on NOAA tide stations, will be approximately 3 feet higher than current levels.
http://corpsclimate.us/ccacesIcurves.cfm 2068 represents the 50 year USACE Civil Works project life with an assumed construction completion by 2018.

A Geophysical Approach

Our Future?







1. Identify Geophysical Regions
2. Prioritize Regions
3. Budget for Study Cost Share ($1.5M ea)
4. Budget for Projects (Studies and Constructi
5. Metrics and Milestones

A Strategic Campaign Plan

Our Future?

A Spirit of Partnership

You Matter!

We Are Norfolk District
380 Dedicated Federal

At Your Service – Ready for your Questions

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